

CALL FOR SESSIONS

ANTHROPOGENIC CONSTRAINT IN FLOOD HAZARD

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ABSTRACT SESSION

The historical research conducted through the analysis of documents, maps and iconographies has made it possible to assess the transformations of the landscape that have occurred over a period of the last 150 years, with particular attention to several floodplains, which are periodically or historically subject to flooding events, often tied with high socio-economic damage. In fact, the serious flood events that have occurred in recent years have highlighted how the effects of floods have been amplified by anthropic interventions made on the floodplain-riverbed system.

Anthropic transformations observed have led, on the one hand, to an increase in vulnerability in the geo-hydrological risk equation and, on the other, to the morphological transformation of the river pattern. This has been evidenced by the reduction of expansion areas, the interruption of river corridors, the deepening of riverbeds and the shortening or culverting of watercourses, resulting in the acceleration of flood flows and widespread instability in terms of solid transport.

These analyses, if appropriately translated into effective actions, make it possible to improve geo-hydrological risk awareness, increase resilience and adapt the territory with planning consistent with the current situation and credible scenarios.